

2018 NSHM Update Workshop
March 7-8th, 2018: 9:00 am - 4:30 pm
Risk Management Solutions Headquarters
Amenities Building (7677 Gateway Blvd., Newark, CA 94560)

Draft Agenda

Wednesday, March 7, 2018

- 9:00 am - 10:00 am Motivation for and Overview of the 2018 NSHM Update
- Why a 2018 update, and what updates are being considered (timeline, CEUS GMMs, WUS basin effects, seismicity catalog)
 - What do users need?
- 10:00 am - 12:00 pm Proposed Updates of the CEUS GMMs and Results
- NGA-East USGS and NGA-East Seed GMMs (updated Seed models, weights for updated Seed Models)
 - How do NGA-East USGS and NGA-East Seed models compare and how CEUS amplification factors impact hazard?
 - How do models compare with data and simulations?
- 12:30 pm - 4:00 pm Discussion of the Proposed Updates of the CEUS GMMs
- Why is NGA-East USGS better than 2014 GMMs (Sammons mapping)?
 - Why are NGA-East Seed Models (and updates) better than 2014 GMMs (Physics based)?
 - Which of these models should be used in the 2018 update? (discussion, weights)
 - Why should we use new CEUS amplification factors?
 - Are these amplification factors usable for the 2018 update?
 - Details of the models - e.g., PGA clamping (ground motions and 3 sigma at short periods)
- 4:00 pm - 4:30 pm Consensus on CEUS GMM updates

Thursday, March 8, 2018

- 9:00 am - 9:30 am Motivation for and Overview of the 2018 NSHM Update
- Brief recap of why a 2018 update, what updates, consensus on CEUS GMM updates
 - Southern California Earthquake Center (SCEC) Utilization of Ground Motion Simulations (UGMS) Committee

- 9:30 am - 10:30 am Proposed WUS Basin-Effect Updates and Results
- Proposed models (4 areas, WUS Vs30, WUS Zx)
- 10:30 am - 2:00 pm Discussion of the Proposed WUS Basin-Effect Updates
- Why should we use the published velocity models for Z1.0 and Z2.5?
 - How should we apply the Ground motion models?
 - What basin models should we consider for the 2020 model? Cybershake, M9
- 2:00 pm - 2:30 pm Consensus on WUS Basin-Effect updates
- 2:30 pm - 3:30 pm Update of the Smooth Seismicity Model (Seismicity Catalog)
- Declustering?
 - M2.7 vs. M3.0?
- 3:30 pm - 4:30 pm Next Steps
- Code availability, online tools for evaluation
 - 2020?

Note: Sandwiches and refreshments will be provided for lunch each day, courtesy of RMS.